

5  
633.11  
A7m

# MONTANA WHEAT

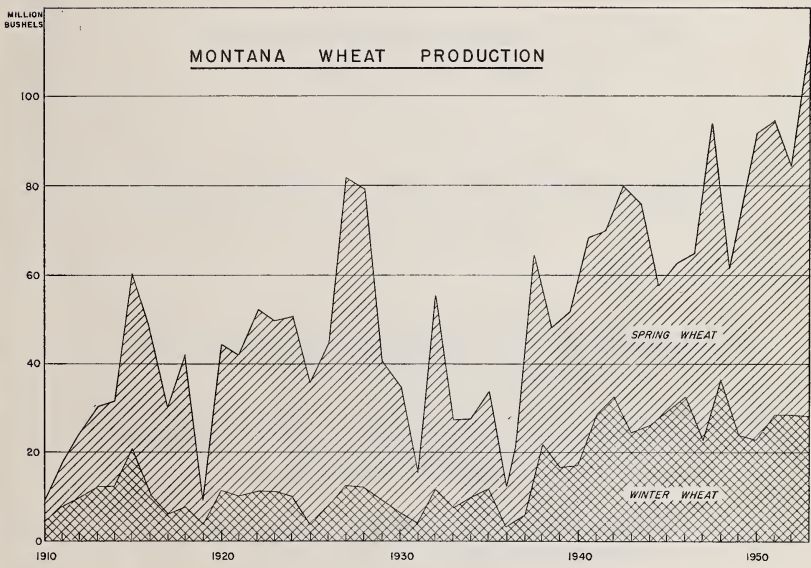
Data Relating

to [REDACTED]

Production and Marketing

Of Wheat

1949 to [REDACTED]



Issued Cooperatively by

Montana Department of Agriculture

and

U. S. Department of Agriculture

Helena, Montana

MONTANA STATE LIBRARY  
930 East Lyndale Avenue  
Helena, Montana 59601

STATE DOCUMENTS

Montana State Library



3 0864 1006 4904 8



# MONTANA WHEAT

**Acreage of Wheat Fertilized With Commercial Fertilizer**

1953

---

**Wheat Production By Protein Content Groups**

1951, 1952 and 1953

---

**Premiums Offered for Protein in Wheat**

Av. 1942-51, 1952 and 1953

---

**Acreage of Wheat Sprayed for Weeds**

1949, 1950, 1951 and 1952

---

**Farm and Commercial Grain Storage Capacity**

1951 and 1953

---

**MONTANA DEPARTMENT OF AGRICULTURE**

Albert H. Kruse, Commissioner

**UNITED STATES DEPARTMENT OF AGRICULTURE**

**Agricultural Marketing Service**

P. J. Creer, Agricultural Statistician in Charge

L. W. Wallin, Agricultural Statistician

John R. Price, Agricultural Statistician

---

Helena, Montana

R.M.A. Project 431-34



2

NAEGELE PRINTING CO., HELENA, MONT.

MONTANA STATE LIBRARY. — 3 —

200 Lindale Avenue  
Helena, Montana 59601

**STATE DOCUMENTS**

## PRODUCTION OF MONTANA WHEAT

Wheat growing became prominent in Montana in the 1900's, and since 1913 it has been the State's chief agricultural enterprise. From 1948 to 1952, about 38 cents of the Montana farm income dollar came from wheat as compared with 33½ cents from cattle. Recently Montana has held, among other States, third position in the production of all wheat and second position in the production of spring wheat. Since 1900 the State's contribution to the national wheat crop has, with the exception of the 1930 drought period, increased steadily. From 1900 to 1904 the output averaged 2.6 million bushels and was only .04 percent of the U. S. crop. In 1953 Montana's wheat production was measured for the first time in nine digit figures of more than one hundred million bushels and was nearly ten percent of the Nation's harvest.

Montana has gained prominence in wheat production largely through an expansion of acreage. From 1918 to 1945 wheat seedings ranged from 3 million to 4.7 million acres. Since 1946 large blocks of sod have been broken for wheat and some acreage previously occupied by other crops has been diverted to wheat. In 1953 wheat seedings reached an all-time record of 6.4 million acres. Total acreage devoted to this grain, including summer fallow land, amounted to a little more than 7 million acres in 1945 which took up 60 percent of the total cropland. By 1953 it included 11½ million acres and involved 73 percent of the total cropland.

Increased use of summer fallowed land for wheat has accompanied the general expansion of acreage. Where 7 of every 10 acres were seeded on fallowed land in 1945, slightly more than 8 acres were seeded in 1953. Fallowed land generally produces more wheat per acre than land not fallowed and the difference in yield is more pronounced in extremely dry years. During the period 1945 to 1951 the average yield per acre of wheat harvested from fallowed land was 16.7 bushels per acre, compared with 10.6 bushels per acre for that harvested from other dry land continuously cropped.

### PURPOSE OF BULLETIN

In response to the need for more information relating to Montana Wheat, the Montana Crop and Livestock Reporting Service has assembled the data appearing on the following pages. Practices and situations affecting the production and marketing of this crop are presented by counties, districts and for the state. Estimates concerning the 1953 wheat were prepared from reports submitted by 3,766 wheat growers in the state. Comparative data for previous years were provided by the same source.

For this project, state funds were matched with Federal funds received from the Agricultural Stabilization and Conservation Service, U.S.D.A., under provisions of the Agricultural Marketing Act of 1946.



## COMMERCIAL FERTILIZER APPLIED TO MONTANA WHEAT

Application of commercial fertilizer to wheat growing soils in Montana appears to be in the transitional stage, from experimentation to general practice. The tonnage of nitrogen and phosphate sold within the State in 1953 was much larger than the previous year and continued an upward trend observed for the past ten years. Prior to last year commercial fertilization of wheat was confined largely to small dry land plots and irrigated fields. Most of the fertilizer had been used for sugar beets and potatoes. Consumption of all fertilizers and materials in 1953 amounted to 31,112 tons, 41 percent more than in 1952. The acreage of sugar beets and potatoes increased 13 percent from 1952 to 1953. The following table shows that 213,300 acres of wheat received an application of commercial fertilizer in 1953.

### Wheat Acres on Which Commercial Fertilizer Was Applied in 1953

COUNTY*	ALL WHEAT		WINTER WHEAT		SPRING WHEAT	
	Acres Fertilized	Pct. of Harvested Acres	Acres Fertilized	Pct. of Harvested Acres	Acres Fertilized	Pct. of Harvested Acres
Chouteau .....	45,500	9.0	26,300	11.2	19,200	7.0
Fergus .....	31,000	13.1	22,000	16.9	9,000	8.5
Pondera .....	26,300	12.2	8,700	21.9	17,600	10.6
Teton .....	19,700	8.5	11,800	9.6	7,900	7.3
Flathead .....	12,400	33.2	7,100	36.0	5,300	3.0
Gallatin .....	10,100	10.7	4,300	7.5	5,800	15.8
Prairie .....	9,300	19.4	5,900	95.1	3,400	8.2
Toole .....	6,900	2.9	-----	-----	6,900	3.1
Missoula .....	6,600	52.8	2,600	35.6	4,000	76.9
Wibaux .....	5,900	7.8	-----	-----	5,900	7.9
Carbon .....	4,000	9.0	1,000	4.2	3,000	14.4
Dawson .....	2,900	1.4	-----	-----	2,900	1.4
Cascade .....	2,800	1.5	1,300	.8	1,500	4.1
Stillwater .....	2,700	3.2	2,200	3.0	500	5.4
Sheridan .....	2,400	.7	-----	-----	2,400	.7
29 Other Counties .....	24,800	.9	5,000	1.2	19,800	.9
<b>TOTAL .....</b>	<b>213,300</b>	<b>3.5</b>	<b>98,200</b>	<b>6.9</b>	<b>115,100</b>	<b>2.5</b>

#### CROPPING PRACTICE

Irrigated Land .....	35,200	16.6	6,800	20.4	28,400	15.9
Summer Fallow Land .....	154,900	3.1	86,900	6.7	68,000	1.9
Other Dry Land .....	23,200	2.6	4,500	6.1	18,700	2.3

\*Acres fertilized computed separately for 15 principal counties and as a group for 29 other counties.

## MONTANA WHEAT PROTEIN

Montana's wheat is recognized by the grain trade for its good quality and high protein content. Most of the crop is grown on dry land under climatic conditions favorable to the development of protein. High protein wheat is used for blending with wheats of lower protein content and for individual processing to make various types of flour.

Premiums offered for high protein wheat have in most years accounted for a significant amount of the selling price. Quotations at Great Falls for Dark Northern and Northern Spring Wheat containing 16 percent protein for the years 1942-51 placed premiums at nearly 12 cents for each dollar base price. Premiums for the 1953 crop amounted to more than 22 cents for each dollar base price. For mid-August 1953 they were 33 cents per bushel and for mid-June 1954 they were 75 cents per bushel. In relation to base price, protein premiums for the 1953 crop were, with exception of 1938, the highest recorded since 1933. In 1953 Montana produced 27.5 million bushels of wheat containing 15.0 percent or more protein. This compares with 29.6 million bushels in 1952 when premiums were lower and 39.9 million bushels in 1951 when premiums were the lowest since 1935. The unusually high protein premiums paid for the 1953 crop enhanced the cash market for Montana Wheat and resulting in a relatively large movement immediately following harvest.

### Montana Wheat Prices

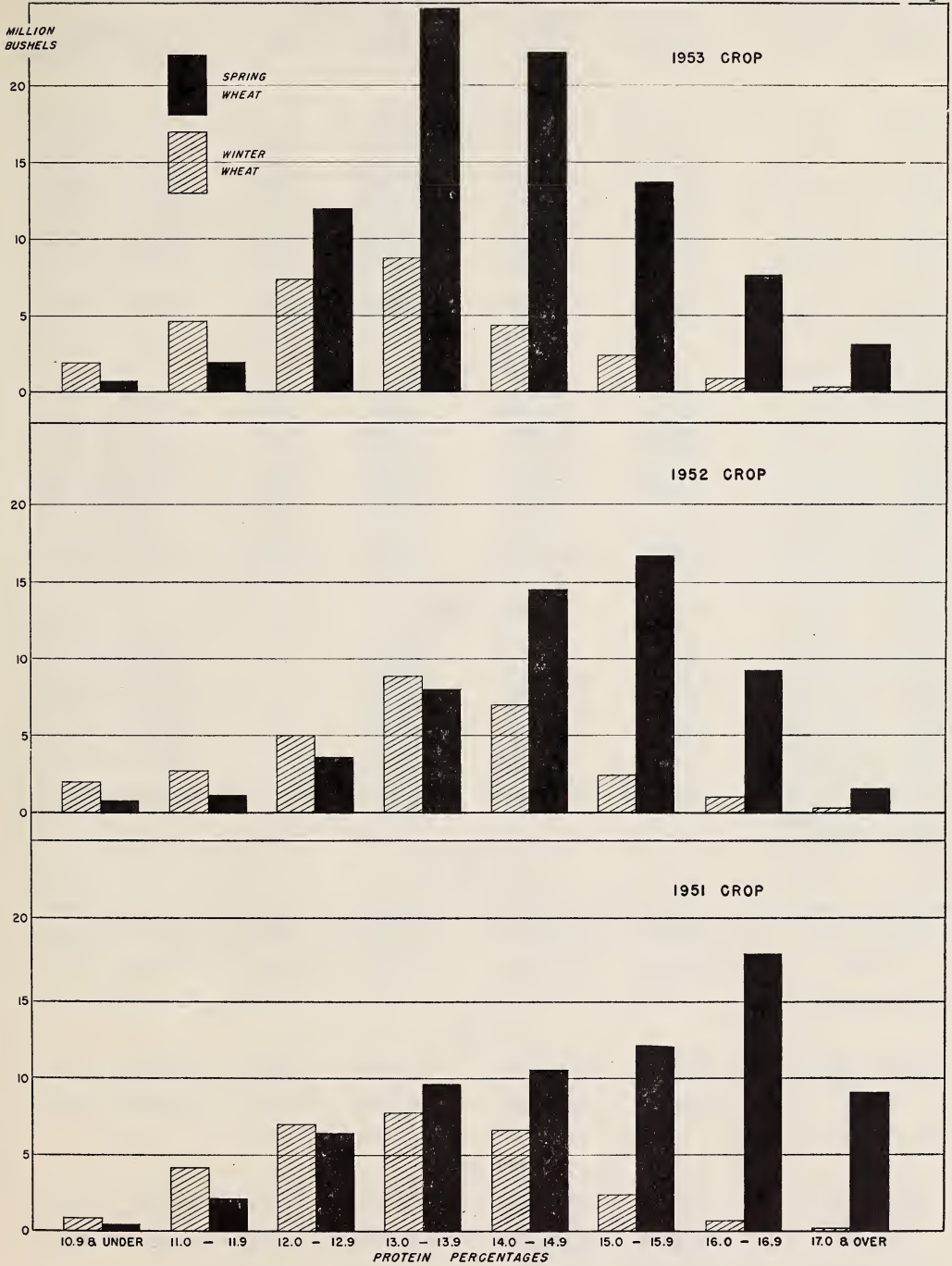
#### Cash Prices and Protein Premiums at Great Falls\*

Crop Year** and Month	Dark Northern and Northern Spring Wheat					Dark Hard and Hard Winter Wheat				
	Base Price No. 1 Heavy	Protein Premium			Percent 16% Protein Premium is of Base Price	Base Price No. 1 Heavy	Protein Premium			Percent 15% Prot. Premium is of Base Price
		15%	16%	17%			14%	15%	16%	
		Cents per Bushel					Cents per Bushel			
Av. 1942-51	164.6	13.8	19.5	25.1	11.7	164.3	8.0	12.3	17.1	7.1
1952	187.8	7.6	13.2	19.1	7.0	188.8	3.7	5.5	7.0	2.9
1953	182.4	28.9	40.5	47.9	22.2	181.7	16.5	23.2	29.7	12.8
1953										
July	191.0	6.0	10.0	16.0	5.2	190.0	3.0	4.0	5.0	2.1
August	170.0	23.0	33.0	43.0	19.4	170.0	19.0	21.0	23.0	12.4
September	180.0	18.0	26.0	30.0	14.4	180.0	15.0	17.0	19.0	9.4
October	178.0	35.0	41.0	48.0	23.0	176.0	23.0	27.0	31.0	15.3
November	189.0	28.0	38.0	42.0	20.1	187.0	14.0	22.0	26.0	11.8
December	184.0	25.0	35.0	39.0	19.0	183.0	10.0	18.0	22.0	9.8
January	184.0	26.0	38.0	46.0	20.7	183.0	17.0	25.0	29.0	13.7
February	187.0	20.0	32.0	40.0	17.1	187.0	14.0	20.0	24.0	10.7
March	181.0	26.0	42.0	50.0	23.2	188.0	10.0	18.0	36.0	9.6
April	180.0	37.0	57.0	67.0	31.7	183.0	18.0	28.0	36.0	15.3
May	178.0	48.0	59.0	69.0	33.1	179.0	24.0	36.0	44.0	20.1
June	180.0	55.0	75.0	85.0	41.7	174.0	31.0	43.0	61.0	24.7

\*Simple averages of quotations extracted from the Great Falls Tribune for one day each month centering mid-month.

\*\*July of year shown to June following year.

# MONTANA WHEAT PRODUCTION BY PROTEIN GROUPS



# PRODUCTION OF MONTANA WHEAT BY PROTEIN CONTENT GROUPS AND CROPPING PRACTICES—1951, 1952 and 1953 CROPS

CROPPING PRACTICES						
PROTEIN GROUP	Irrigated Land	Summer Fallow Land	Other Dry Land	Volun- teer	TOTAL	
					Bushels	Percent
Bushels Produced						
1953 CROP—ALL WHEAT						
Percent						
10.9 and under	442,400	1,822,000	228,100	4,200	2,496,700	2.2
11.0 - 11.9	801,400	4,831,100	1,009,100	5,200	6,646,800	5.8
12.0 - 12.9	1,588,400	14,885,400	2,855,400	22,600	19,351,800	16.9
13.0 - 13.9	1,473,800	27,009,600	3,373,700	56,700	31,813,800	27.9
14.0 - 14.9	787,600	23,216,900	2,238,600	70,100	26,313,200	23.0
15.0 - 15.9	338,700	14,459,900	1,168,000	20,500	15,987,100	14.0
16.0 - 16.9	144,700	7,323,500	835,500	4,800	8,308,500	7.3
17.0 - 17.9	75,000	2,567,500	175,000	3,700	2,821,200	2.5
18.0 and over		399,800	32,900	2,200	434,900	.4
TOTAL	5,652,000	96,515,700	11,816,300	190,000	114,174,000	100.0
Av. % protein	12.8	13.9	13.4	13.8	13.8	
WINTER WHEAT						
10.9 and under	147,500	1,670,500	27,800	4,200	1,850,000	6.5
11.0 - 11.9	384,200	4,131,100	172,500	5,200	4,693,000	16.5
12.0 - 12.9	251,700	6,759,400	363,600	22,600	7,397,300	25.9
13.0 - 13.9	106,700	6,437,400	271,700	56,700	6,872,500	24.1
14.0 - 14.9	57,900	4,033,200	131,300	70,100	4,292,500	15.1
15.0 - 15.9	55,100	2,206,000	114,900	20,500	2,396,500	8.4
16.0 - 16.9	12,100	712,500	14,500	4,800	743,900	2.6
17.0 - 17.9		141,900	10,500	3,700	156,100	.6
18.0 and over		85,700	10,300	2,200	98,200	.3
TOTAL	1,015,200	26,177,700	1,117,100	190,000	28,500,000	100.0
Av. % protein	12.0	13.0	13.5	13.8	12.9	
SPRING WHEAT						
10.9 and under	294,900	151,500	200,300		646,700	.8
11.0 - 11.9	417,200	700,000	836,600		1,953,800	2.3
12.0 - 12.9	1,336,700	8,126,000	2,491,800		11,954,500	13.9
13.0 - 13.9	1,367,100	20,572,200	3,002,000		24,941,300	29.1
14.0 - 14.9	729,700	19,183,700	2,107,300		22,020,700	25.7
15.0 - 15.9	283,600	12,253,900	1,053,100		13,590,600	15.9
16.0 - 16.9	132,600	6,611,000	821,000		7,564,600	8.8
17.0 - 17.9	75,000	2,425,600	164,500		2,665,100	3.1
18.0 and over		314,100	22,600		336,700	.4
TOTAL	4,636,800	70,338,000	10,699,200		85,674,000	100.0
Av. % Protein	13.0	14.2	13.5		14.1	
ALL WHEAT						
1953 Crop						
14.9 and less	5,093,600	71,765,000	9,604,900	158,800	86,622,300	75.8
15.0 and over	558,400	24,750,700	2,211,400	31,200	27,551,700	24.2
TOTAL	5,652,000	96,515,700	11,816,300	190,000	114,174,000	100.0
Av. % protein	12.8	13.9	13.4	13.8	13.8	
1952 Crop						
14.9 and less	6,279,500	43,372,000	4,141,700	183,100	53,976,300	64.6
15.0 and over	268,700	26,011,200	3,258,900	32,900	29,571,700	35.4
TOTAL	6,548,200	69,383,200	7,400,600	216,000	83,548,000	100.0
Av. % protein	12.6	14.2	14.5	13.5	14.1	
1951 Crop						
14.9 and less	6,997,300	43,911,500	4,214,300	38,600	55,161,700	58.0
15.0 and over	427,800	34,898,000	4,541,500	4,000	39,871,300	42.0
TOTAL	7,425,100	78,809,500	8,755,800	42,600	95,033,000	100.0
Av. % protein	12.6	14.4	14.8	13.0	14.3	



# MONTANA WHEAT PRODUCTION BY PROTEIN CONTENT GROUPS 1951, 1952 AND 1953 CROPS

COUNTY*	1951		1952		1953	
	14.9 Percent and Less Protein	15.0 Percent and More Protein	14.9 Percent and Less Protein	15.0 Percent and More Protein	14.9 Percent and Less Protein	15.0 Percent and More Protein
Bushels						
Hill .....	737,100	4,356,700	3,660,200	3,042,100	4,024,400	5,334,700
Roosevelt .....	575,700	4,178,100	494,300	2,936,100	7,747,300	436,500
Sheridan .....	504,900	3,467,900	1,499,700	2,069,300	6,362,600	196,800
Daniels .....	620,200	2,900,500	2,074,300	1,126,700	6,394,100	197,800
Valley .....	889,400	2,879,400	1,914,100	1,882,800	3,776,300	3,204,000
McCone .....	133,800	2,722,100	36,500	1,451,500	3,750,900	806,700
Chouteau .....	9,489,300	2,196,900	5,935,300	1,490,300	6,023,000	3,587,000
Liberty .....	188,100	2,117,500	1,080,900	2,077,800	2,240,900	1,979,300
Dawson .....	591,700	1,778,800	145,200	926,000	3,099,100	404,400
Richland .....	847,100	1,666,500	519,100	1,245,600	3,347,600	139,500
Toole .....	1,717,300	1,226,400	2,832,600	1,238,500	4,235,800	806,800
Blaine .....	303,900	1,110,700	752,400	1,543,600	847,700	1,698,000
Fergus .....	2,435,800	1,109,800	2,521,400	1,005,600	3,881,600	552,400
Phillips .....	196,700	1,055,200	763,100	1,207,300	908,300	1,755,300
Fallon .....	145,900	1,040,000	25,900	643,100	658,600	748,600
Wibaux .....	186,800	877,000	41,500	399,000	706,900	265,400
Judith Basin .....	1,140,100	615,200	1,240,000	536,600	1,474,900	248,100
Cascade .....	4,174,700	590,300	2,937,900	554,100	3,450,100	220,200
Garfield .....	3,600	506,300	21,000	217,100	188,100	640,600
Yellowstone .....	2,248,200	444,600	2,340,500	190,500	1,771,300	404,800
Prairie .....	273,300	435,400	44,100	135,100	367,100	216,500
Powder River .....	169,600	313,000	225,500	107,900	107,300	321,800
Glacier .....	1,356,700	286,700	1,149,000	283,000	1,530,700	124,100
Pondera .....	6,010,600	203,700	3,222,900	1,196,100	4,368,600	426,800
Rosebud .....	309,300	176,500	178,300	177,700	171,800	192,200
Golden Valley .....	228,500	148,800	419,900	43,400	246,600	127,600
Musselshell .....	215,100	148,100	143,400	141,500	167,200	152,600
Big Horn .....	2,136,900	147,500	1,749,000	162,900	493,500	593,000
Wheatland .....	113,300	96,500	213,900	27,800	122,700	91,100
Flathead .....	793,000	74,200	963,700	57,900	925,600	13,100
Madison .....	406,900	58,200	390,100	13,900	241,000	65,600
Carbon .....	1,042,200	51,800	1,160,300	13,400	768,400	52,500
Gallatin .....	2,061,500	46,000	2,499,100	10,600	2,070,300	113,600
Stillwater .....	1,419,600	32,700	1,585,000	53,000	907,400	427,000
Teton .....	6,616,900	15,200	3,928,800	877,000	4,607,200	242,500
Lewis and Clark .....	405,200	12,900	431,700	10,900	322,400	10,000
Park .....	682,400	6,200	871,500	-----	500,800	53,200
Other Counties .....	3,790,900	777,500	3,964,200	476,000	3,814,200	701,600
<b>STATE .....</b>	<b>55,162,200</b>	<b>39,870,800</b>	<b>53,976,300</b>	<b>29,571,700</b>	<b>86,622,300</b>	<b>27,551,700</b>

\*County arrangement based on 1951 Production of 15.0 percent and more protein.

# MONTANA PRODUCTION OF ALL WHEAT AND AVERAGE PERCENT PROTEIN—1951, 1952 and 1953 CROPS

COUNTY*	1951		1952		1953	
	Bushels Produced	Average Percent Protein	Bushels Produced	Average Percent Protein	Bushels Produced	Average Percent Protein
Garfield .....	509,900	16.8	238,100	15.8	828,700	15.7
Phillips .....	1,251,900	16.6	1,970,400	15.0	2,663,600	15.3
McCone .....	2,855,900	16.4	1,488,000	16.2	4,557,600	14.1
Wibaux .....	1,063,800	16.0	440,500	16.3	972,300	15.0
Blaine .....	1,414,600	16.0	2,296,000	14.8	2,545,700	14.9
Liberty .....	2,305,600	15.9	3,158,700	15.1	4,220,200	14.8
Roosevelt .....	4,753,800	15.9	3,430,400	15.6	8,183,800	13.3
Hill .....	5,093,800	15.8	6,702,300	14.6	9,359,100	14.9
Fallon .....	1,185,900	15.8	669,000	16.1	1,407,200	14.9
Sheridan .....	3,972,800	15.8	3,569,000	14.8	6,559,400	13.1
Dawson .....	2,370,500	15.7	1,071,200	15.7	3,303,500	13.7
Daniels .....	3,520,700	15.6	3,201,000	14.2	6,591,900	12.8
Valley .....	3,768,800	15.5	3,796,900	14.6	6,980,300	14.6
Musselshell .....	363,200	15.4	284,900	15.1	319,800	14.8
Richland .....	2,513,600	15.2	1,764,700	15.0	3,487,100	12.9
Prairie .....	708,700	15.2	179,200	15.3	583,600	13.9
Powder River .....	482,600	15.0	333,400	15.0	429,100	16.3
Toole .....	2,943,700	14.4	4,071,100	14.4	5,042,600	13.9
Judith Basin .....	1,755,300	14.3	1,776,600	13.9	1,723,000	13.3
Golden Valley .....	377,300	14.1	463,300	12.9	374,200	14.1
Fergus .....	3,545,600	14.1	3,527,000	13.8	4,434,000	12.9
Wheatland .....	209,800	14.0	241,700	13.1	213,800	14.5
Chouteau .....	11,686,200	13.9	7,425,600	14.0	9,610,000	14.1
Rosebud .....	485,800	13.4	356,000	14.6	364,000	14.9
Pondera .....	6,214,300	13.2	4,419,000	14.0	4,795,400	13.4
Yellowstone .....	2,692,800	12.9	2,531,000	12.9	2,176,100	13.6
Teton .....	6,632,100	12.7	4,805,800	13.3	4,849,700	12.5
Glacier .....	1,643,400	12.7	1,432,000	13.9	1,654,800	13.3
Big Horn .....	2,284,400	12.7	1,911,900	13.8	1,086,500	14.8
Cascade .....	4,765,000	12.7	3,492,000	13.4	3,670,300	12.4
Flathead .....	867,200	12.5	1,021,600	12.2	938,700	11.8
Carbon .....	1,094,000	12.7	1,173,700	11.9	820,900	12.9
Lewis and Clark .....	418,100	12.4	442,600	12.3	332,400	12.7
Park .....	688,600	12.3	871,500	12.1	554,000	13.5
Stillwater .....	1,452,300	12.2	1,638,000	12.6	1,334,400	14.1
Madison .....	465,100	12.1	404,000	11.6	306,600	14.0
Gallatin .....	2,107,500	11.8	2,509,700	11.1	2,183,900	12.0
Other Counties .....	4,568,400	12.7	4,440,200	12.1	4,515,800	12.1
<b>STATE .....</b>	<b>95,033,000</b>	<b>14.4</b>	<b>83,548,000</b>	<b>14.1</b>	<b>114,174,000</b>	<b>13.8</b>

\*County arrangement based on percent protein for the 1951 crop.

## CHEMICAL CONTROL OF WEEDS IN MONTANA WHEAT

Application of chemicals to wheat fields for control of weeds is a common practice in Montana. In 1952 more than half of the acreage seeded to wheat in the State was sprayed for weeds. Chemicals were applied to 3,183,000 acres of wheat, of which 1,211,000 acres was winter wheat and 1,972,000 acres spring wheat. The acreage sprayed in 1951 was slightly larger than in 1952, which may indicate that weed spraying has reached a peak. After several years of experimentation, the use of chemicals as a weed killer received general acceptance in 1944. Although data on acreage sprayed for weeds were not assembled until 1949, it was evident by 1947 that a large proportion of the winter wheat acreage received weed killing sprays. In successive years this practice broadened to include much of the spring wheat, barley and other grains.

To obtain maximum destruction of weeds, the chemicals should be applied when the plants are at a certain stage of development. This has required close timing and the use of equipment which can spray large areas in a short time. Slow speed, maneuverable airplanes have been widely used for fields of large size and suitable contour. However, ground spraying rigs are common in all weed spraying localities.

Most of the wheat acreage sprayed for weeds in Montana is situated in the central and north central portions. Chouteau County, the most prominent wheat producing county, heads the list with 390,000 acres sprayed in 1952. The neighboring counties of Hill and Liberty with 333,000 acres and 211,000 acres sprayed respectively are next in rank. More than 100,000 acres were sprayed in each of the prominent spring wheat counties of Roosevelt, Sheridan and Valley.

### Wheat Acreage Sprayed for Weeds 1949 - 1952

YEAR—Kind				Acreage Sprayed By Cropping Practice								
				Total		Other				Volunteer		
		Seeded Acres	Sprayed Pct. Acres	Irrigated Pct.	Acres	Summer Pct.	Fallow Acres	Dry Land Pct.	Acres	Pct.	Acres	
1949—												
All	Wheat	5,975,000	47	2,801,600	35	83,000	52	2,311,000	30	399,200	65	8,400
Winter	Wheat	1,710,000	68	1,160,100	41	18,600	69	1,067,900	53	65,200	65	8,400
Spring	Wheat	4,265,000	39	1,641,500	34	64,400	44	1,243,100	28	334,000	---	---
1950—												
All	Wheat	5,283,000	51	2,679,800	37	74,900	55	2,372,300	30	225,000	35	7,600
Winter	Wheat	1,402,000	64	901,600	28	8,400	65	825,300	59	60,300	35	7,600
Spring	Wheat	3,881,000	46	1,778,200	38	66,500	51	1,547,000	25	164,700	---	---
1951—												
All	Wheat	6,274,000	53	3,348,600	35	82,000	59	2,983,300	29	282,400	21	900
Winter	Wheat	1,500,000	64	953,800	33	10,900	65	911,500	46	30,500	21	900
Spring	Wheat	4,774,000	50	2,394,800	35	71,100	57	2,071,800	28	251,900	---	---
1952—												
All	Wheat	6,230,000	51	3,183,100	33	75,400	57	2,817,900	26	277,400	55	12,400
Winter	Wheat	1,695,000	71	1,211,100	44	19,100	73	1,138,700	41	40,900	55	12,400
Spring	Wheat	4,535,000	43	1,972,000	30	56,300	50	1,679,200	24	236,500	---	---



# WHEAT SPRAYED FOR WEEDS 1952 CROP

COUNTY & DISTRICT	All Wheat			Winter Wheat			Spring Wheat		
	Seeded	Sprayed		Seeded	Sprayed		Seeded	Sprayed	
	Acres	Pct.	Acres	Acres	Pct.	Acres	Acres	Pct.	Acres
Deerlodge .....	2,200	0	0	100	0	0	2,100	0	0
Flathead .....	42,200	55	23,400	26,900	63	17,000	15,300	42	6,400
Granite .....	3,000	10	300	200	50	100	2,800	7	200
Lake .....	32,100	45	14,400	21,100	50	10,500	11,000	35	3,900
Lincoln .....	1,300	0	0	300	0	0	1,000	0	0
Mineral .....	1,400	7	100	300	33	100	1,100	0	0
Missoula .....	12,800	30	3,800	5,600	54	3,000	7,200	11	800
Powell .....	8,300	20	1,700	400	50	200	7,900	19	1,500
Ravalli .....	12,000	33	4,000	3,900	13	500	8,100	43	3,500
Sanders .....	9,200	39	3,600	6,300	51	3,200	2,900	14	400
<b>West of Divide .....</b>	<b>124,500</b>	<b>41</b>	<b>51,300</b>	<b>65,100</b>	<b>53</b>	<b>34,600</b>	<b>59,400</b>	<b>28</b>	<b>16,700</b>
Blaine .....	120,900	80	96,600	6,800	66	4,500	114,100	81	92,100
Chouteau .....	519,200	75	390,000	383,200	84	322,300	136,000	50	67,700
Glacier .....	76,300	62	47,100	7,300	89	6,500	69,000	59	40,600
Hill .....	488,500	68	333,100	128,900	77	98,900	359,600	65	234,200
Liberty .....	244,400	86	211,200	54,700	93	50,600	189,700	85	160,600
Phillips .....	131,400	41	54,300	2,400	58	1,400	129,000	41	52,900
Pondera .....	218,300	75	162,800	26,600	74	19,800	191,700	75	143,000
Teton .....	243,200	72	174,200	70,800	82	57,800	172,400	68	116,400
Toole .....	228,700	74	169,000	10,900	67	7,300	217,800	74	161,700
<b>N. Central District .....</b>	<b>2,270,900</b>	<b>72</b>	<b>1,638,300</b>	<b>691,600</b>	<b>82</b>	<b>569,100</b>	<b>1,579,300</b>	<b>68</b>	<b>1,069,200</b>
Daniels .....	306,300	24	72,800	0	0	0	306,300	24	72,800
Dawson .....	211,900	17	36,800	1,800	11	200	210,100	17	36,600
Garfield .....	67,300	33	21,900	3,100	42	1,300	64,200	32	20,600
McCone .....	258,600	25	64,200	7,700	36	2,800	250,900	24	61,400
Richland .....	226,700	15	34,800	1,500	7	100	225,200	15	34,700
Roosevelt .....	379,800	33	126,300	400	25	100	379,400	33	126,200
Sheridan .....	316,500	47	149,500	300	0	0	316,200	47	149,500
Valley .....	332,000	37	123,700	1,400	29	400	330,600	37	123,300
<b>N. East District .....</b>	<b>2,099,100</b>	<b>30</b>	<b>630,000</b>	<b>16,200</b>	<b>30</b>	<b>4,900</b>	<b>2,082,900</b>	<b>30</b>	<b>625,100</b>
Broadwater .....	43,600	63	27,500	27,600	63	17,300	16,000	64	10,200
Cascade .....	204,500	71	145,900	136,100	78	105,800	68,400	59	40,100
Fergus .....	247,600	71	175,200	135,700	86	117,100	111,900	52	58,100
Golden Valley .....	26,600	65	17,400	21,600	70	15,200	5,000	44	2,200
Judith Basin .....	127,300	62	78,900	58,100	74	43,100	69,200	52	35,800
Lewis and Clark .....	23,600	52	12,200	13,000	88	11,500	10,600	66	700
Meagher .....	4,200	60	2,500	1,300	77	1,000	2,900	52	1,500
Musselshell .....	29,800	68	20,300	22,100	67	14,900	7,700	70	5,400
Petroleum .....	11,000	38	4,200	4,400	11	500	6,600	56	3,700
Wheatland .....	14,500	39	5,600	6,400	62	4,000	8,100	20	1,600
<b>Central District .....</b>	<b>732,700</b>	<b>67</b>	<b>489,700</b>	<b>426,300</b>	<b>78</b>	<b>330,400</b>	<b>306,400</b>	<b>52</b>	<b>159,300</b>
Beaverhead .....	13,900	0	0	7,800	0	0	6,100	0	0
Gallatin .....	98,500	28	27,800	65,400	37	24,000	33,100	11	3,800
Jefferson .....	15,100	23	3,400	7,700	38	2,900	7,400	7	500
Madison .....	18,500	34	6,300	9,600	41	3,900	8,900	27	2,400
Silver Bow .....	200	0	0	100	0	0	100	0	0
<b>S. West District .....</b>	<b>146,200</b>	<b>26</b>	<b>37,500</b>	<b>90,600</b>	<b>34</b>	<b>30,800</b>	<b>55,600</b>	<b>12</b>	<b>6,700</b>
Big Horn .....	104,900	58	60,900	78,200	67	52,300	26,700	32	8,600
Carbon .....	52,400	53	27,700	29,900	63	18,700	22,500	40	9,000
Park .....	36,700	38	14,000	28,300	37	10,600	8,400	40	3,400
Stillwater .....	94,200	71	67,000	81,900	73	59,700	12,300	59	7,300
Sweet Grass .....	20,000	39	7,800	8,000	50	4,000	12,000	32	3,800
Treasure .....	10,500	67	700	5,100	6	300	5,400	7	400
Yellowstone .....	127,500	62	79,000	107,600	66	70,600	19,900	42	8,400
<b>S. Central District .....</b>	<b>446,200</b>	<b>58</b>	<b>257,100</b>	<b>339,000</b>	<b>64</b>	<b>216,200</b>	<b>107,200</b>	<b>38</b>	<b>40,900</b>
Carter .....	45,900	8	3,800	5,700	0	0	40,200	9	3,800
Custer .....	32,200	18	5,900	9,600	28	2,700	22,600	14	3,200
Fallon .....	127,700	14	17,900	2,800	68	1,900	124,900	13	16,000
Powder River .....	45,200	29	12,900	28,300	34	9,500	16,900	20	3,400
Prairie .....	46,200	17	7,700	4,400	48	2,100	41,800	13	5,600
Rosebud .....	36,400	41	14,900	15,100	59	8,900	21,300	28	6,000
Wibaux .....	76,800	21	16,100	300	0	0	76,500	21	16,100
<b>S. East District .....</b>	<b>410,400</b>	<b>19</b>	<b>79,200</b>	<b>66,200</b>	<b>38</b>	<b>25,100</b>	<b>344,200</b>	<b>16</b>	<b>54,100</b>
<b>STATE .....</b>	<b>6,230,000</b>	<b>51</b>	<b>3,183,100</b>	<b>1,695,000</b>	<b>71</b>	<b>1,211,100</b>	<b>4,535,000</b>	<b>43</b>	<b>1,972,000</b>

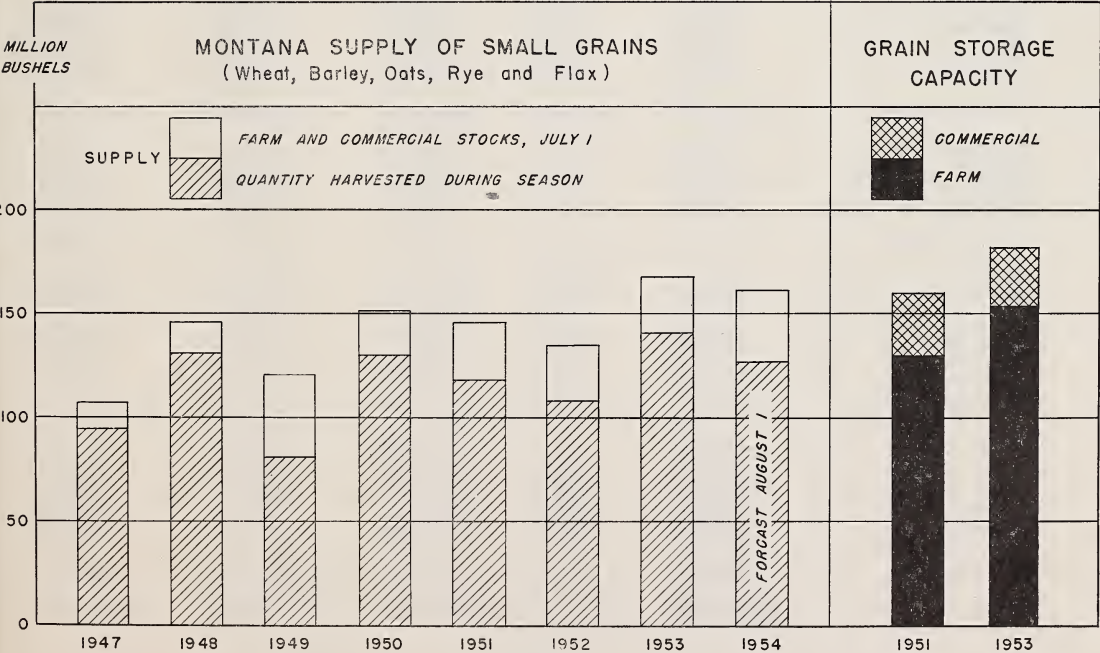


FARM AND COMMERCIAL GRAIN STORAGE FACILITIES IN MONTANA

Farmers and commercial warehousemen in Montana have increased their grain storage capacity to handle larger crops and more carryover. Total storage facilities available in the State at the end of the year 1953 amounted to 182 million bushels. About 152½ million bushels of this was on-the-farm storage and the balance of 29½ million bushels was commercial storage. Two years previous, total facilities would accommodate 158 million bushels of grain. During the interim, farm bin space increased 22 million and commercial space 2 million bushels.

Most of Montana's small grains are harvested within a six weeks' period during August and early September. Coinciding with that in North Dakota, the harvest in Montana is the last in the nation and much of the grain must be stored locally as little space is available at the large grain terminals. Storage facilities in the nation have become more congested in recent years and many growers have found it desirable to enlarge their storage capacity. During the three-year period 1949-51 approximately 28½ million bushels of farm storage was constructed in the state. Another 22½ million bushels capacity was built during the two years, 1952 and 1953. Wooden granaries make up 79 percent of the farm storage space but steel bins and quonset type structures are gaining prominence as they comprise more than three-fourths of the new storage construction in 1952 and 1953.

Although total grain storage space exceeded small grain production in 1953 by approximately 41 million bushels, some growers found it necessary to pile grain on the ground at harvest time. Part of the farm and commercial space was occupied by large stocks carried over from previous years and the bins partially filled with one kind of grain could not be utilized for other grains. While many growers with long hauls to country elevators have adequate space, others, especially those within close proximity of shipping points have little if any storage capacity. Such conditions increase the burden of placing Montana grains under cover in years of large harvest and carry-over.



# GRAIN STORAGE CAPACITY AND GRAIN PRODUCTION 1951 AND 1953

COUNTY & DISTRICT	1953 Grain Storage Capacity			1953 Small Grain Production Wheat, Oats, Barley, Rye and Flax	1951 Grain Storage Capacity Total Farm and Commercial
	On Farms and Ranches	Commercial Mills and Elevators	Total		
	Bushels				
Deerlodge .....	60,000	-----	60,000	151,700	50,000
Flathead .....	1,680,000	618,000	2,298,000	1,565,300	2,090,000
Granite .....	90,000	20,000	110,000	103,900	110,000
Lake .....	1,360,000	223,000	1,583,000	1,558,900	1,515,000
Lincoln .....	60,000	-----	60,000	85,100	60,000
Mineral .....	50,000	-----	50,000	45,000	50,000
Missoula .....	570,000	115,000	685,000	496,000	685,000
Powell .....	330,000	25,000	355,000	309,200	325,000
Ravalli .....	640,000	41,000	681,000	963,700	639,000
Sanders .....	430,000	47,000	477,000	340,200	464,000
<b>W. of Divide .....</b>	<b>5,270,000</b>	<b>1,089,000</b>	<b>6,359,000</b>	<b>5,619,000</b>	<b>5,988,000</b>
Blaine .....	3,050,000	806,000	3,856,000	3,201,900	3,461,000
Chouteau .....	11,350,000	1,882,000	13,232,000	10,403,600	12,160,000
Glacier .....	3,990,000	503,000	4,493,000	4,627,900	3,438,000
Hill .....	9,990,000	1,220,000	11,210,000	9,909,700	9,608,000
Liberty .....	4,250,000	623,000	4,873,000	4,376,500	3,944,000
Phillips .....	3,180,000	492,000	3,672,000	3,122,900	3,543,000
Pondera .....	7,510,000	1,337,000	8,847,000	6,486,200	7,247,000
Teton .....	6,750,000	1,380,000	8,130,000	5,922,100	7,261,000
Toole .....	5,470,000	1,171,000	6,641,000	6,026,200	4,370,000
<b>N. Central District .....</b>	<b>55,540,000</b>	<b>9,414,000</b>	<b>64,954,000</b>	<b>54,077,000</b>	<b>55,032,000</b>
Daniels .....	6,890,000	650,000	7,540,000	7,379,800	6,272,000
Dawson .....	4,680,000	644,000	5,324,000	4,305,600	4,076,000
Garfield .....	1,270,000	-----	1,270,000	1,026,900	980,000
McCone .....	5,700,000	282,000	5,982,000	5,160,200	4,355,000
Richland .....	4,990,000	435,000	5,425,000	4,592,400	4,796,000
Roosevelt .....	8,900,000	1,197,000	10,097,000	8,857,200	7,896,000
Sheridan .....	8,570,000	1,162,000	9,732,000	7,261,500	8,595,000
Valley .....	7,720,000	1,158,000	8,878,000	7,774,300	7,628,000
<b>N. East District .....</b>	<b>48,720,000</b>	<b>5,528,000</b>	<b>54,248,000</b>	<b>46,357,900</b>	<b>44,598,000</b>
Broadwater .....	940,000	307,000	1,247,000	1,156,200	1,162,000
Cascade .....	4,700,000	3,976,000	8,676,000	4,113,400	8,332,000
Fergus .....	5,750,000	2,439,000	8,189,000	5,380,500	7,439,000
Golden Valley .....	640,000	108,000	748,000	482,200	530,000
Judith Basin .....	2,730,000	865,000	3,595,000	2,166,200	3,241,000
Lewis and Clark .....	930,000	20,000	950,000	592,500	660,000
Meagher .....	160,000	20,000	180,000	166,200	170,000
Musselshell .....	640,000	90,000	730,000	390,500	735,000
Petroleum .....	180,000	25,000	205,000	135,300	185,000
Wheatland .....	480,000	600,000	1,080,000	335,900	1,075,000
<b>Central District .....</b>	<b>17,150,000</b>	<b>8,450,000</b>	<b>25,600,000</b>	<b>14,918,900</b>	<b>23,529,000</b>
Beaverhead .....	900,000	60,000	960,000	507,700	878,000
Gallatin .....	3,450,000	1,873,000	5,323,000	3,252,800	5,018,000
Jefferson .....	570,000	24,000	594,000	424,700	538,000
Madison .....	840,000	65,000	905,000	725,500	896,000
Silver Bow .....	30,000	-----	30,000	15,500	30,000
<b>S. West District .....</b>	<b>5,790,000</b>	<b>2,022,000</b>	<b>7,812,000</b>	<b>4,926,200</b>	<b>7,360,000</b>
Big Horn .....	2,720,000	202,000	2,922,000	1,450,300	2,608,000
Carbon .....	1,890,000	357,000	2,247,000	1,444,900	1,985,000
Park .....	890,000	341,000	1,231,000	952,700	1,174,000
Stillwater .....	2,180,000	358,000	2,538,000	1,596,600	2,144,000
Sweet Grass .....	420,000	65,000	485,000	487,800	395,000
Treasure .....	330,000	20,000	350,000	277,400	330,000
Yellowstone .....	3,750,000	608,000	4,358,000	2,851,700	4,375,000
<b>S. Central District .....</b>	<b>12,180,000</b>	<b>1,951,000</b>	<b>14,131,000</b>	<b>9,061,400</b>	<b>13,011,000</b>
Carter .....	580,000	-----	580,000	554,600	560,000
Custer .....	880,000	305,000	1,185,000	659,800	1,000,000
Fallon .....	1,950,000	397,000	2,347,000	1,823,400	2,225,000
Powder River .....	1,060,000	40,000	1,100,000	577,800	1,040,000
Prairie .....	890,000	155,000	1,045,000	733,700	1,000,000
Rosebud .....	1,060,000	99,000	1,159,000	561,000	1,040,000
Wibaux .....	1,530,000	210,000	1,740,000	1,276,300	1,715,000
<b>S. East District .....</b>	<b>7,950,000</b>	<b>1,206,000</b>	<b>9,156,000</b>	<b>6,186,600</b>	<b>8,580,000</b>
<b>STATE .....</b>	<b>152,600,000</b>	<b>29,660,000</b>	<b>182,260,000</b>	<b>141,147,000</b>	<b>158,098,000</b>



